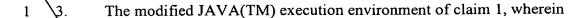


## What is claimed is:

طريح	$\int 1$	A modified JAVA(TM) execution environment comprising:
AS	/ _ 2	a substantially unmodified JAVA(TM) Virtual Machine,
.,	3	a set of substantially unmodified base classes;
	4	one or more overlays to the set of substantially unmodified base classes,
	5	the one or more overlays enabling corresponding base classes to
	6	support shared access by one or more substantially unmodified
	7	JAVA(TM) applications;
	8	an unmodified primordial class loader for loading the system base
	9	classes as overlaid by the one or more overlays to the base classes;
:	10	a security manager supporting multiple applications and for limiting
	11	access to system resources according to user permissions; and
	12	an dynamic class loader generator for creating a class loader for loading
	13	an application, the application classes and creating a thread group for
	14	the application.
	1	2. The modified JAVA(TM) execution environment of claim 1, wherein
	2	the application includes at least one of an application class loader and an
	3	application security manager.



- 2 the one or more overlays include overlays to file classes to limit access to
- 3 system resources according to user permissions associated with the application.
- 1 4. The modified JAVA(TM) execution environment of claim 1, wherein
- 2 the application includes at least one of an application class loader and an
- 3 application security manager.
- 1 5. The modified JAVA(TM) execution environment of claim 1, wherein
- 2 the application includes one or more invocations of Abstract Window Toolkit
- 3 (AWT) classes.
- 1 6. The modified XAVA(TM) execution environment of claim 1, wherein
- 2 the one or more overlays support determining a calling application.
- The modified JAVA(TM) execution environment of claim 6, wherein
- 2 the determining a calling application comprises identifying the class loader of a
- 3 calling method, and using the class loader to identify the application.
- 1 8. The modified JAVA(TM) execution environment of claim 6, wherein
- 2 the determining a calling application comprises identifying the thread group for
- a calling method, and using the thread group to identify the application.
- 1 9. A method of supporting a number of applications in a single JAVA(TM)
- 2 execution environment, the method comprising:

3	means for generating a class loader for each of the applications in the
4	number of applications, the class loader providing a name space for
5	each application, and a thread group for each application;
6	means for overlaying one or more substantially unmodified base classes
7	to support the number of applications; and
8	means for determining a calling application for a method.
1	10. The method of claim 9, wherein at least one of the number of
2	applications includes an application class loader.
1	11. The method of claim 9, wherein at least one of the number of
2	applications includes an application security manager.
1	12. A computer data signal embodied in a carrier wave comprising:
2	a computer program for supporting a number of substantially
3	unmodified JAVA(TM) applications on a substantially unmodified
4	JAVA(TM) Virtual Machine (JVM), the JVM including a set of
5	substantially unmodified base classes and a substantially unmodified
6	primordial class loader, the program comprising:
7	a first set of instructions for generating a class loader for each of the
8	JAVA(TM) applications in the number of JAVA(TM)
9	applications, the class loader providing a name space for each
10	application, and a thread group for each application;
11	a second set of instructions for overlaying one or more substantially
12	unmodified base classes to support the number of applications;
13	and
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14	a third set of instructions for determining a calling application for a	
15	method.	
1	13. The computer data signal of claim 12, wherein the first set of	
2	instructions further associates a user with each application, and wherein the	
3	program further comprises a fourth set of instructions for limiting access to a	
4	system resource by an application according to whether the user associated with	
5	the application has access to the system resource.	
6		